CLAIMS

1) - A compound of formula (I):

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(I)

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as well as pharmaceutically acceptable salts thereof; wherein

 R_1 is selected from the group consisting of alkyl(C_1-C_6), alkenyl(C_2-C_6), ω , ω , ω -trifluoroalkyl(C_1-C_6), cycloalkyl(C_3-C_6) 15 C_6), cycloalkyl(C_3-C_6) alkyl(C_1-C_6), -O-alkyl(C_1-C_6), -NH $alkyl(C_1-C_6)$, $-N(dialkyl(C_1-C_6))$, $alkyl(C_1-C_6)-O-alkyl(C_1-C_6)$ C_6), alkyl(C_1-C_6)-NH-alkyl(C_1-C_6), alkyl(C_1-C_6)-N(dialkyl(C_1-C_6) C₆)), phenyl, monosubstituted phenyl, disubstituted phenyl, 20 phenylalkyl(C_1-C_6), phenylalkenyl(C_2-C_6), furyl, substituted furyl, isoxazolyl, substituted isoxazolyl, pyrazolyl, substituted pyrazolyl, thienyl, substituted thienyl, thiazolyl, substituted thiazolyl, pyridyl and substituted pyridyl;

25 R_2 is selected from the group consisting of hydrogen, alkyl(C_1 - C_6), alkenyl(C_2 - C_6), alkynyl(C_2 - C_6) and cycloalkyl(C_3 - C_6);

or else

 R_1 and R_2 form a cycle having the structure:

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wherein n is an integer 1, 2 or 3;

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 R_3 is selected from the group consisting of hydrogen, halogen, alkyl(C_1 - C_6), cycloalkyl(C_3 - C_6), alkenyl(C_2 - C_6), alkynyl(C_2 - C_6), -O-alkyl(C_1 - C_6), halo-alkyl(C_1 - C_6), -CN, -SO₂- R_4 , -NH- R_4 , -NR₄ R_5 , -COR₆, -CO-NHR₆, -COOR₆, -C(NR₇)R₆, phenyl, substituted phenyl, heteroaryl and substituted heteroaryl;

 R_4 and R_5 are independently selected from the group consisting of alkyl(C_1 - C_6), cycloalkyl(C_3 - C_6), aryl and heteroaryl;

- 10 R₆ is selected from the group consisting of hydrogen, $alkyl(C_1-C_6)$, $alkenyl(C_2-C_6)$, $alkynyl(C_2-C_6)$, $cycloalkyl(C_3-C_6)$, phenyl, substituted phenyl, furyl, substituted furyl, thienyl, substituted thienyl, thiazolyl, substituted thiazolyl, pyridyl and substituted pyridyl;
- 15 R₇ is selected from the group consisting of alkyl(C_1 - C_6), cycloalkyl(C_3 - C_6), -OH, -O-alkyl(C_1 - C_6), alkyl(C_1 - C_6)-O-alkyl(C_1 - C_6), alkyl(C_1 - C_6)-NH-alkyl(C_1 - C_6), alkyl(C_1 - C_6)-N(dialkyl(C_1 - C_6)), phenyl, monosubstituted phenyl, furyl, thienyl, thiazolyl and pyridyl; and
- R₈ is selected from the group consisting of hydrogen, alkyl(C_1 - C_6), cycloalkyl(C_3 - C_6), aryl and substituted or unsubstituted heteroaryl;

with the proviso that simultaneously:

 R_1 may not be p-tolyl and R_2 methyl and R_3 benzoyl; and R_1 may not be p-tolyl and R_2 ethyl and R_3 furyl-2-carbonyl.

- 2) A compound according to claim 1, wherein R_1 and R_2 are independently as defined in formula (I) and R_3 is a cyano group.
- 3) A compound according to claim 2, wherein R_1 is selected from the group consisting of methyl, ethyl, n-propyl, i-propyl, n-butyl, phenyl and 4-methoxyphenyl; and

 R_2 is selected from the group consisting of methyl, ethyl, n-propyl, i-propyl, n-butyl, cyclopropyl and 2-propynyl.

- 4) A compound according to claim 2, wherein R_1 and R_2 jointly form a 1,3-propylene group.
 - 5) A compound according to claim 1, wherein R_1 and R_2 are independently as defined in formula (I) and R_3 is a thiophene-2-carbonyl group.

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6) - A compound according to claim 5, wherein R₁ is selected from the group consisting of methyl, ethyl, n-2-phenylethenyl, i-propyl, n-butyl, 2,2,2propyl, trifluroethyl, phenyl, 2-chlorophenyl, 3-chlorophenyl, 4-2,4-dichlorophenyl, 3,4-dichlorophenyl, chlorophenyl, cyanophenyl, 3-cyanophenyl, 4-cyanophenyl, 4-methoxyphenyl, 3-nitrophenyl, 4-nitrophenyl, 2-thienvl, 5-methyl-4isoxazolyl, 5-methyl-2-trifluoromethyl-3-furyl, morpholinyl)-3-pyridyl, 2,4-dimethyl-5-thiazolyl, cyclopropyl, benzyl, vinyl, 3,5-dimethyl-4-isoxazolyl, 1,3,5-trimethyl-4-pyrazolyl and cyclopentylmethyl; and R2 is selected from the group consisting of hydrogen, methyl, ethyl, n-propyl, i-propyl, n-butyl, cyclopropyl and 2propynyl.

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- 7) A compound according to claim 5 wherein R_1 and R_2 jointly form a 1,3-propylene group.
- 8) A compound according to claim 1, wherein R_1 and R_2 are independently as defined in formula (I) and R_3 is a benzoyl group.

WO 2005/014597

9) - A compound according to claim 8 wherein R_1 is selected from the group consisting of methyl and ethyl; and R_2 is selected from the group consisting of methyl, ethyl and 2-propinyl.

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10) - A compound according to claim 1, wherein R_1 and R_2 are independently as defined in formula (I) and R_3 is a 4-fluorobenzoyl group.

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11) - A compound according to claim 10 wherein R_1 is selected from the group consisting of methyl and ethyl; and R_2 is selected from the group consisting of methyl, ethyl and 2-propinyl.

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12) - A compound according to claim 1, wherein R_1 and R_2 are independently as defined in formula (I) and R_3 is a 4-methylbenzoyl group.

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13) - A compound according to claim 12 wherein R_1 is selected from the group consisting of methyl and ethyl; and R_2 is selected from the group consisting of methyl, ethyl and 2-propinyl.

14) - A compound according to claim 1, wherein R_1 and R_2 are independently as defined in formula (I) and R_3 is a 4-methoxybenzoyl group.

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15) - A compound according to claim 14 wherein R_1 is selected from the group consisting of methyl and ethyl; and R_2 is selected from the group consisting of methyl, ethyl and 2-propinyl.

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- 16) A compound according to claim 1, wherein R_1 and R_2 are independently as defined in formula (I) and R_3 is a 5-methyl-1,2,4,-oxadiazol-3-yl group.
- 17) A compound according to claim 16 wherein R_1 is methyl and R_2 is selected from the group consisting of hydrogen and ethyl.
- 18) A compound according to claim 1, wherein R_1 and . R_2 are independently as defined in formula (I) and R_3 is a pyridyl-2-carbonyl group.
 - 19) A compound according to claim 18 wherein R_1 is selected from the group consisting of methyl and ethyl; and R_2 is selected from the group consisting of methyl, ethyl and 2-propinyl.
 - 20) A compound according to claim 1, wherein R_1 and R_2 are independently as defined in formula (I) and R_3 is a pyridyl-4-carbonyl group.
 - 21) A compound according to claim 20 wherein R_1 is selected from the group consisting of methyl and ethyl; and R_2 is selected from the group consisting of methyl, ethyl and 2-propinyl.
 - 22) A compound according to claims 2 and 3, wherein said compound is selected from the group consisting of:

 N-[3-(3-cyano-pyrazolo[1,5-a]pyrimidin-7-yl)-phenyl]-N
 methyl-methanesulfonamide;

 N-[3-(3-cyano-pyrazolo[1,5-a]pyrimidin-7-yl)-phenyl]-N
 ethyl-methanesulfonamide;

- N-[3-(3-cyano-pyrazolo[1,5-a]pyrimidin-7-yl)-phenyl]-N-methyl-benzenesulfonamide;
- N-[3-(3-cyano-pyrazolo[1,5-a]pyrimidin-7-yl)-phenyl]-N-ethyl-benzenesulfonamide;
- N-[3-(3-cyano-pyrazolo[1,5-a]pyrimidin-7-yl)-phenyl]-N-prop-2-inyl-methanesulfonamide;
 - N-[3-(3-cyano-pyrazolo[1,5-a]pyrimidin-7-yl)-phenyl]-N-propylethanesulfonamida;
 - N-[3-(3-cyano-pyrazolo[1,5-a]pyrimidin-7-yl)-phenyl]-N-ethyl-ethanesulfonamide;
- N-[3-(3-cyano-pyrazolo[1,5-a]pyrimidin-7-yl)-phenyl]-N-prop-2-inyl-propane-2-sulfonamide;
 - N-[3-(3-cyano-pyrazolo[1,5-a]pyrimidin-7-yl)-phenyl]-N-methylethanesulfonamide;
- N-[3-(3-cyano-pyrazolo[1,5-a]pyrimidin-7-yl)-phenyl]-N-butyl-ethanesulfonamide;
 - N-[3-(3-cyano-pyrazolo[1,5-a]pyrimidin-7-yl)-phenyl]-N-methyl-2-propanesulfonamide;
 - N-[3-(3-cyano-pyrazolo[1,5-a]pyrimidin-7-yl)-phenyl]-N-ethyl-2
- 20 propanesulfonamide;
 - N-[3-(3-cyano-pyrazolo[1,5-a]pyrimidin-7-yl)-phenyl]-N-butyl-2-propanesulfonamide;
 - N-[3-(3-cyano-pyrazolo[1,5-a]pyrimidin-7-yl)-phenyl]-N-propyl-2-propanesulfonamide; and
- N-[3-(3-cyano-pyrazolo[1,5-a]pyrimidin-7-yl)-phenyl]-N-prop-2-inyl-ethanesulfonamide.
- 23) A compound according to claim 4 wherein said compound is 7-(3-(2-isothiazolydinyl-1,1-dioxide)-phenyl)-30 3-cyano-pyrazolo[1,5-a]pyrimidine.
 - 24) A compound according to claims 5 and 6, wherein said compound is selected from the group consisting of:

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N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]}
       pyrimidin-7-yl]-phenyl}-methanesulfonamide;
       N-ethyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]}
       pyrimidin-7-yl]-phenyl}-methanesulfonamide;
       N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
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       pyrimidin-7-yl]-phenyl}-benzenesulfonamide;
       N-ethyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
       pyrimidin-7-yl]-phenyl}-benzenesulfonamide;
       N-prop-2-inyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-
       a]pyrimidin-7-yl]-phenyl}-methanesulfonamide;
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       N-propyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
       pyrimidin-7-yl]-phenyl}-ethanesulfonamide;
       N-ethyl-N-(3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
       pyrimidin-7-yl]-phenyl}-ethanesulfonamide;
       N-prop-2-inyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-
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       a]pyrimidin-7-yl]-phenyl}-2-propanesulfonamide;
       N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]}
       pyrimidin-7-yl]-phenyl}-ethanesulfonamide;
       N-butyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
       pyrimidin-7-yl]-phenyl}-ethanesulfonamide;
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       N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-
       a]pyrimidin-7-yl]-phenyl}-2-propanesulfonamide;
       N-ethyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
       pyrimidin-7-yl]-phenyl}-2-propanesulfonamide;
       N-propyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
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       pyrimidin-7-yl]-phenyl}-2-propanesulfonamide;
       N-butyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
       pyrimidin-7-yl]-phenyl}-2-propanesulfonamide;
       N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]}
       pyrimidin-7-yl]-phenyl}-2-phenylethenesulfonamide;
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       N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]}
       pyrimidin-7-yl]-phenyl}-2,2,2-trifluoroethanesulfonamide;
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N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
        pyrimidin-7-yl]-phenyl}-2-chlorobenzenesulfonamide;
        N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
        pyrimidin-7-yl]-phenyl}-3-chlorobenzenesulfonamide;
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        N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
        pyrimidin-7-yl]-phenyl}-4-chlorobenzenesulfonamide;
        N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
        pyrimidin-7-yl}-phenyl}-2,4-dichlorobenzenesulfonamide;
        N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
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        pyrimidin-7-yl]-phenyl}-3,4-dichlorobenzenesulfonamide;
        N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
        pyrimidin-7-yl]-phenyl}-2-cyano-benzenesulfonamide;
        N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]}
        pyrimidin-7-yl]-phenyl}-3-cyano-benzenesulfonamide;
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        N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
        pyrimidin-7-yl]-phenyl}-4-cyano-benzenesulfonamide;
        N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
        pyrimidin-7-yl]-phenyl}-3-nitro-benzenesulfonamide;
        N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
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        pyrimidin-7-yl]-phenyl}-4-nitro-benzenesulfonamide;
        N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-
        a]pyrimidin-7-yl]-phenyl}-2-thiophenesulfonamide;
        N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
       pyrimidin-7-yl]-phenyl}-5-methyl-4-isoxazolyl-sulfonamide;
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       N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
       pyrimidin-7-yl]-phenyl}-2-trifluoromethyl-5-methyl-3-furyl-
       sulfonamide;
       N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
       pyrimidin-7-yl]-phenyl}-6-(morpholin-4-yl)-3-pyridyl-
30
       sulfonamide;
       N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]
       pyrimidin-7-yl]-phenyl}-2,4-dimethyl-5-thiazolyl-
       sulfonamide;
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N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a] pyrimidin-7-yl]-phenyl}-cyclopropylsulfonamide; $N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]}$ pyrimidin-7-yl]-phenyl}-benzylsulfonamide; N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a] 5 pyrimidin-7-yl]-phenyl}-vinylsulfonamide; N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a] pyrimidin-7-yl]-phenyl}-3,5-dimethyl-4-isoxazolylsulfonamide; N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a] 10 pyrimidin-7-yl]-phenyl}-1,3,5-trimethyl-4-pyrazolylsulfonamide; $N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a]}$ pyrimidin-7-yl]-phenyl}-propanesulfonamide;

N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a] pyrimidin-7-yl]-phenyl}-butanesulfonamide; and N-methyl-N-{3-[3-(thiophene-2-carbonyl)-pyrazolo[1,5-a] pyrimidin-7-yl]-phenyl}-cyclopenthylmethanesulfonamide.

20 25) - A compound according to claim 7 wherein said compound is 7-(3-(2-isothiazolydinyl-1,1-dioxide)-phenyl)-3-(thiophene-2-carbonel)-pyrazolo[1,5-a]pyrimidine.

26) - A compound according to claims 8 and 9 wherein

25 said compound is selected from the group consisting of:

N-methyl-N-{3-[3-(benzoyl)-pyrazolo[1,5-a]pyrimidin-7-yl]
phenyl}-methanesulfonamide;

N-ethyl-N-{3-[3-(benzoyl)-pyrazolo[1,5-a]pyrimidin-7-yl]
phenyl}-methanesulfonamide;

N-methyl-N-{3-[3-(benzoyl)-pyrazolo[1,5-a]pyrimidin-7-yl]
phenyl}-ethanesulfonamide;

N-ethyl-N-{3-[3-(benzoyl)-pyrazolo[1,5-a]pyrimidin-7-yl]
phenyl}-ethanesulfonamide;

N-prop-2-inyl-N-{3-[3-(benzoyl)-pyrazolo[1,5-a]pyrimidin-7-yl]-phenyl}-ethanesulfonamide; and N-prop-2-inyl-N-{3-[3-(benzoyl)-pyrazolo[1,5-a]pyrimidin-7-yl]-phenyl}-methanesulfonamide.

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27) - A compound according to claims 10 and 11 wherein said compound is selected from the group consisting of:

N-methyl-N-{3-[3-(fluorobenzene-4-carbonyl)-pyrazolo[1,5-a]
pyrimidin-7-yl]-phenyl}-methanesulfonamide;

N-ethyl-N-{3-[3-(fluorobenzene-4-carbonyl)-pyrazolo[1,5-a]
pyrimidin-7-yl]-phenyl}-methanesulfonamide;

N-methyl-N-{3-[3-(fluorobenzene-4-carbonyl)-pyrazolo[1,5-a]
pyrimidin-7-yl]-phenyl}-ethanesulfonamide;

N-ethyl-N-{3-[3-(fluorobenzene-4-carbonyl)-pyrazolo[1,5-a]
pyrimidin-7-yl]-phenyl}-ethanesulfonamide;

N-prop-2-inyl-N-{3-[3-(fluorobenzene-4-carbonyl)-pyrazolo
[1,5-a]pyrimidin-7-yl]-phenyl}-ethanesulfonamide; and

N-prop-2-inyl-N-{3-[3-(fluorobenzene-4-carbonyl)-

pyrazolo[1,5-a]pyrimidin-7-yl]-phenyl}-methanesulfonamide.

28) - A compound according to claims 12 and 13 wherein

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said compound is selected from the group consisting of:

N-methyl-N-{3-[3-(4-methylbenzoyl)-pyrazolo[1,5-a]

pyrimidin-7-yl]-phenyl}-methanesulfonamide;

N-ethyl-N-{3-[3-(4-methylbenzoyl)-pyrazolo[1,5-a]pyrimidin
7-yl]-phenyl}-methanesulfonamide;

N-methyl-N-{3-[3-(4-methylbenzoyl)-pyrazolo[1,5-a]

pyrimidin-7-yl]-phenyl}-ethanesulfonamide;

N-ethyl-N-{3-[3-(4-methylbenzoyl)-pyrazolo[1,5-a]pyrimidin
7-yl]-phenyl}-ethanesulfonamide;

N-prop-2-inyl-N-{3-[3-(4-methylbenzoyl)-pyrazolo[1,5-a]

pyrimidin-7-yl]-phenyl}-ethanesulfonamide; and

 $N-prop-2-inyl-N-\{3-[3-(4-methylbenzoyl)-pyrazolo[1,5-a] pyrimidin-7-yl]-phenyl\}-methanesulfonamide.$

- 29) A compound according to claims 14 and 15 wherein said compound is selected from the group consisting of: 5 $N-methyl-N-{3-[3-(4-methoxybenzoyl)-pyrazolo[1,5-a]}$ pyrimidin-7-yl]-phenyl}-methanesulfonamide; $N-ethyl-N-{3-[3-(4-methoxybenzoyl)-pyrazolo[1,5-a]}$ pyrimidin-7-yl]-phenyl}-methanesulfonamide; $N-methyl-N-{3-[3-(4-methoxybenzoyl)-pyrazolo[1,5-a]}$ 10 pyrimidin-7-yl]-phenyl}-ethanesulfonamide; $N-ethyl-N-{3-[3-(4-methoxybenzoyl)-pyrazolo[1,5-a]}$ pyrimidin-7-yl]-phenyl}-ethanesulfonamide; $N-prop-2-inyl-N-{3-[3-(4-methoxybenzoyl)-pyrazolo[1,5-a]}$ pyrimidin-7-yl]-phenyl}-ethanesulfonamide; and 15 $N-prop-2-inyl-N-{3-[3-(4-methoxybenzoyl)-pyrazolo[1,5-a]}$ pyrimidin-7-yl]-phenyl}-methanesulfonamide.
- 30) A compound according to claims 16 and 17 wherein said compound is selected from the group consisting of:

 N-{3-[3-(5-methyl-[1,2,4]oxadiazol-3-yl)-pyrazolo[1,5-a]

 pyrimidin-7-yl]-phenyl}-methanesulfonamide; and

 N-ethyl-N-{3-[3-(5-methyl-[1,2,4]oxadiazol-3-yl)-pyrazolo

 [1,5-a]pyrimidin-7-yl]-phenyl}-methanesulfonamide.

31) - A compound according to claims 18 and 19 wherein said compound is selected from the group consisting of:

N-methyl-N-{3-[3-(pyridin-2-carbonyl)-pyrazolo[1,5-a]

pyrimidin-7-yl]-phenyl}-methanesulfonamide;

N-ethyl-N-{3-[3-(pyridin-2-carbonyl)-pyrazolo[1,5-a]

pyrimidin-7-yl]-phenyl}-methanesulfonamide;

N-prop-2-inyl-N-{3-[3-(pyridin-2-carbonyl)-pyrazolo[1,5-a]

pyrimidin-7-yl]-phenyl}-methanesulfonamide;

N-methyl-N-{3-[3-(pyridin-2-carbonyl)-pyrazolo[1,5-a] pyrimidin-7-yl]-phenyl}-ethanesulfonamide; N-ethyl-N-{3-[3-(pyridin-2-carbonyl)-pyrazolo[1,5-a] pyrimidin-7-yl]-phenyl}-ethanesulfonamide; and N-prop-2-inyl-N-{3-[3-(pyridin-2-carbonyl)-pyrazolo[1,5-a] pyrimidin-7-yl]-phenyl}-ethanesulfonamide.

- 32) A compound according to claims 20 and 21 wherein said compound is selected from the group consisting of: 10 $N-methyl-N-\{3-[3-(pyridin-4-carbonyl)-pyrazolo[1,5-a]\}$ pyrimidin-7-yl]-phenyl}-methanesulfonamide; N-ethyl-N-{3-[3-(pyridin-4-carbonyl)-pyrazolo[1,5-a] pyrimidin-7-yl]-phenyl}-methanesulfonamide; N-methyl-N-{3-[3-(pyridin-4-carbonyl)-pyrazolo[1,5-a] 15 pyrimidin-7-yl]-phenyl}-ethanesulfonamide; $N-\text{ethyl}-N-\{3-[3-(\text{pyridin}-4-\text{carbonyl})-\text{pyrazolo}[1,5-a]\}$ pyrimidin-7-yl]-phenyl}-ethanesulfonamide; $N-prop-2-inyl-N-\{3-[3-(pyridin-4-carbonyl)-pyrazolo[1,5-a]$ pyrimidin-7-yl]-phenyl}-ethanesulfonamide; and 20 $N-prop-2-inyl-N-{3-[3-(pyridin-4-carbonyl)-pyrazolo[1,5-a]}$ pyrimidin-7-yl]-phenyl}-methanesulfonamide.
- 33) A process for preparing a compound of formula
 (I) or a pharmaceutically acceptable salt thereof,
 according to claim 1, comprising reacting intermediate
 (II):

wherein R_1 and R_2 are as defined in (I) and Q is an appropriate leaving group selected from the group consisting of $N(dialkyl(C_1-C_6))$, alkylthio(C_1-C_6) and alkoxy(C_1-C_6), with intermediate (III):

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(III)

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wherein R_3 is as defined in (I) and alternatively, treatment of the compounds of claim 1, in the form of free base, with an acid to form a salt thereof.

- 34) A process according to claim 33, comprising utilizing the intermediate of formula (II) where Q is selected from the group consisting of dimethylamino, methylthio and methoxy.
- 35)- A method for treating or preventing diseases associated with GABA_A receptor modulation in a mammal which comprises administering to said mammal an effective amount of a compound of claim 1.

- 36) A method for treating or preventing diseases associated with α_1 -GABA_A receptor modulation in a mammal which comprises administering to said mammal an effective amount of a compound of claim 1.
- 37) A method for treating or preventing diseases α_2 associated with α_2 -GABA, receptor modulation in a mammal

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which comprises administering to said mammal an effective amount of a compound of claim 1.

- 38) A method for treating or preventing anxiety in a mammal which comprises administering to said mammal an effective amount of a compound of claim 1.
 - 39) A method for treating or preventing epilepsy in a mammal which comprises administering to said mammal an effective amount of a compound of claim 1.
 - 40) A method for treating or preventing sleep disorders in a mammal which comprises administering to said mammal an effective amount of a compound of claim 1.
 - 41) A method for treating or preventing insomnia in a mammal which comprises administering to said mammal an effective amount of a compound of claim 1.
- 42) A method for inducing sedation-hypnosis in a mammal which comprises administering to said mammal an effective amount of a compound of claim 1.
- 43) A method for inducing anesthesia in a mammal which comprises administering to said mammal an effective amount of a compound of claim 1.
- 44) A method for modulating the necessary time to induce sleep and its duration in a mammal which comprises administering to said mammal an effective amount of a compound of claim 1.

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- 45) A method for inducing muscle relaxation in a mammal which comprises administering to said mammal an effective amount of a compound of claim 1.
- 5 46) A composition comprising a compound of claim 1 in association with a therapeutically inert carrier.
 - 47) The use of a compound of claim 1 for preparing a medicament for treating or preventing diseases associated with GABA_A receptor modulation.
 - 48) The use of claim 47 wherein the diseases are associated with $\alpha_1\text{-}GABA_A$ or $\alpha_2\text{-}GABA_A$ receptor modulation.
 - 49) The use of a compound of claim 1 for preparing a medicament for treating or preventing anxiety, epilepsy, sleep disorders, insomnia, for inducing sedation-hypnosis, anesthesia or muscle relaxation or for modulating the necessary time to include sleep and its duration.
 - 50) A process for preparing the intermediate of formula (VII):

wherein R_1 is as described in (I), characterized by the reaction of the intermediate of formula (IV):

wherein R_1 is as described above, with N,N-dimethylformamide dimethyl acetal.

51) - A process for preparing the intermediate of formula (VII):

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wherein R_1 is as described in (I), characterized by the reaction of N-(3-acetylphenyl)-2,2,2-trifluoroacetamide (VIII):

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and N,N-dimethylformamide dimethyl acetal, followed by the formation of sulfonamide by reaction with the corresponding sulfonic acid chloride.